

REMARKS

Claims 1-10 are pending in the application. Claims 1-10 have been amended and claims 11-13 have been added by way of the present amendment.

In the outstanding Office Action, the title of the specification was objected to as being non-descriptive; claims 1-10 were rejected under 35 USC § 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention; and claims 1-10 were rejected under 35 USC § 103(a) as being unpatentable over US Publication No. 2002/0161493 (Bird et al.). Reconsideration is respectfully requested.

Specification Objections

The title of the application was objected to as being non-descriptive. The title of the specification has been amended by way of the present amendment to be descriptive. As a result, it is respectfully requested that the outstanding objection be withdrawn.

35 USC § 112 Rejections

Claims 1-10 were rejected under 35 USC § 112, second paragraph as being indefinite. Reconsideration is respectfully requested.

Claims 1-10 have been amended and new claims 11-13 have been added to clarify the invention. In particular, claims 1-10 have been amended, as suggested in the outstanding Office Action to: (1) conform with U.S. practice; and (2) remove the phrase for example from claims 7 and 8 and explicitly include these limitations in new dependent claims 11 and 12, which are respectively dependent thereon. It is respectfully submitted that the multi-dependent claim issue was addressed in Preliminary Amendment filed February 4, 2005, which has also been incorporated in the present amendment.

It is respectfully submitted that the amendments find support in the original specification and figures and thus, the amendments raise no questions of new matter. Therefore, it is respectfully requested that the outstanding rejection be withdrawn.

35 USC § 103 Rejections

Claims 1-10 were rejected under 35 USC § 103(a) as being unpatentable over Bird et al. Reconsideration is respectfully requested.

Claims 1-10 have been amended to clarify the invention. Claims 1-10 have been amended and new claims 11-13 have been added to clarify the invention. In particular, claim 1 has been amended to recite:

~~Arrangement [A]n arrangement for at least one of~~
analyzing, simulating and/or monitoring functions and/or
structures in a distributed control system (24) that works with a
first protocol (29), ~~comprising: characterized in that~~
~~a at least one first unit (23, 26) is connected or can be~~
~~connected to the distributed control system via contacts (5', 6',~~
~~6''), which the at least one first unit, by means of the first protocol,~~
receives and/or sends task instructions concerning the monitoring
functions and/or structures; ~~and in that the first unit is connected~~
~~to~~
a second unit (22); ~~in that the second unit in turn is~~
connected or can be connected either ~~the first unit and to a tool~~
arrangement interactable with a user and further comprising:
a first computer equipment (21) adapted with large capacity
in order to be able to carry out sophisticated calculation, simulation
and/or analysis tasks, or to
a PDA unit or corresponding unit ~~second computer~~
connected or connectable to a ~~the first computer equipment that is~~
adapted to ~~configure~~ configure the second computer PDA unit of
the corresponding unit, which ~~wherein the second computer PDA~~
unit or corresponding unit is adapted to carry out more limited at
~~least some of the tasks of the first computer of the mentioned kind,~~
in that wherein the ~~at least one first unit transforms, at least~~
those parts in the first protocol (29) that relate to said tasks into a
second protocol (28), by means of which the tasks or parts of tasks
can be ~~transformed to, carried out by~~ the second unit (22), in that

~~wherein~~ the second unit, by means of the second protocol (28) or a third protocol (27), can communicate with the tool arrangement, ~~which at by~~ readings and/or modifications in the first protocol and in the first and second protocols, respectively, ~~treats can carry out the same with~~ readings and/or modifications in a ~~same way in~~ the second and third protocols, respectively, ~~in that wherein the at least one~~ first unit (23, or 26) ~~further~~ comprises at least one microprocessor which communicates partly with the ~~distributed~~ control system by means of a connection, a protocol and a bit speed valid for the ~~distributed~~ control system, partly ~~and communicates~~ with the second unit (22), and ~~in that wherein~~ the second unit is equipped with at least one microprocessor, as well, by means of which microprocessor the second unit is adapted to ~~communicate and~~ exchange information with the ~~at least one~~ first unit and the tool arrangement.

Support for the amendments to claims 1-10 and for new claims 11-13 are provided by the original figures and specification of the application. In particular, as shown in **Fig. 2** below, and

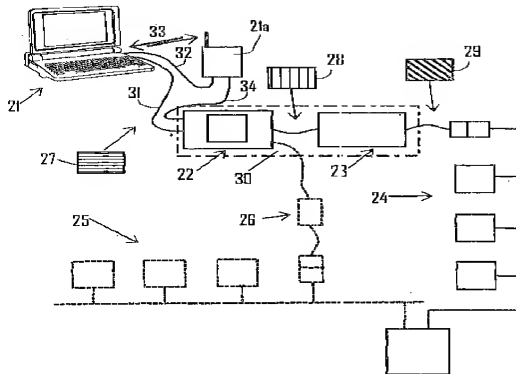


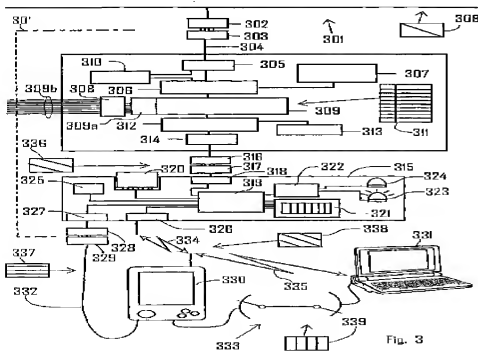
Fig. 2

disclosed in the specification as follows: an arrangement that consists of a basic unit **21** and a unit **22**, wherein a unit **23** is connected to the unit **22** and connected to a control subsystem **24**. Further, the specification discloses the unit **22** can be connected to a second control subsystem **25** via a unit **26** and that communications is carried out: (1) between the unit **21** and the unit **22** is carried out by means of a protocol **27**; (2) between the unit **22** and the unit **23** by means of a another protocol **28**; and (3) between the unit **23** and the analyzed system by means of yet another protocol **29**.¹

¹ See original specification at **Fig. 2**; and page 9, line 28 to page 10, line 28; and/or US Patent Application Publication No. US 2006/0077998 (Fredricksson) at **Fig. 2** and paragraph [0035].

Further, the original specification discloses the units 22, 23 can alternatively be incorporated in a unit 30; and that the (tool) arrangement comprises a sophisticated part 21 (i.e., basic computer unit) and a less sophisticated part 21a (e.g., a PDA).²

Furthermore, Fig. 2, Fig. 3 and the original specification discloses: (1) unit 23 is connected on one side to a system 301 and the signals can be interpreted (i.e., communication is carried out) in accordance with a protocol 308 used in the system 301; (2) a second protocol for example CAN, USB indicated by 336 is used between unit 22 and the unit 23; (3) yet another protocol 337, 338, 339 based, for example on USB, Bluetooth or PCPIP, respectively, can be based to carry out communication between the unit 331 (i.e., 21), 330 (i.e., 21a) and 315 (i.e., 22).³ Moreover, Fig. 3 and the original specification discloses that each of unit 315 (i.e., 22) and 23' (i.e., 23) includes microprocessor 306 and 309, respectively.⁴



² *Id.* at paragraph [0040] of Fredricksson.

The amendments to claim 2-10 and the new claims 11-13 are similarly supported by the original specification and figures. Therefore, it is respectfully submitted that the amendments and new claims raise no questions of new matter.

Bird et al. discloses a vehicle analysis system includes a system analyzer, such as an engine analyzer, having probes that gather data from vehicle parameters such as engine components.⁵ In particular, as shown in Fig. 2 below, Bird et al. discloses probes **8** are connected to signal conditioning circuitry **10** via a cable **6**; the probes **8** are operative to receive various types of information (e.g., analog signals); the analog signals from the probes **8** are

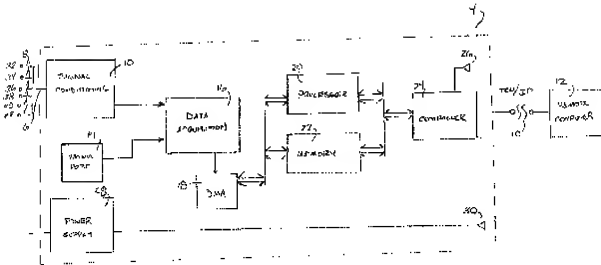


Fig. 2 of Bird et al.

received by the signal conditioning circuit **10** and delivered to data acquisition circuitry **16**; data acquisition circuitry **16**; an analog-to-digital converter system converts the signals into a digitized format that can be understood by processor **20**; digitized data is then delivered to one or more processors **20** or alternatively, be stored in a memory **22**; and data from processor **20**

³ *Id.* at paragraphs [0036] to [0040] of Fredricksson.

⁴ *Id.* at paragraphs [0036] to [0040] of Fredricksson.

⁵ Bird et al. at ABSTRACT.

may be delivered to a controller **24**, such as an ethernet controller, that assembles the data into packets for transmission to a remote computer **12** via communications network **10**.⁶

However, Bird et al. nowhere discloses as amended independent claim 1, recites

a first computer (21) able to carry out calculation, simulation and/or analysis tasks, or
a second computer connected to the first computer that is adapted to configure the second computer, wherein the second computer is adapted to carry out at least some of the tasks of the first computer,
wherein the at least one first unit transforms, at least those parts in the first protocol (29) that relate to said tasks into a second protocol (28), by means of which the tasks or parts of tasks can be carried out by the second unit (22),
wherein the second unit, by means of the second protocol (28) or a third protocol (27), can communicate with the tool arrangement, which by readings and/or modifications in the first protocol and in the first and second protocols, respectively, can carry out the readings and/or modifications in a same way in the second and third protocols, respectively (emphasis added).

That is, Bird et al. nowhere discloses “a second computer connected to the first computer that is adapted to configure the second computer” or that a “second unit, by means of the second protocol (28) or a third protocol (27), can communicate with the tool arrangement, which by readings and/or modifications in the first protocol and in the first and second protocols, respectively, can carry out the readings and/or modifications in a same way in the second and third protocols.” In particular, it is respectfully submitted that Bird et al. nowhere discloses the interaction between computers (i.e., first computer that is adapted to configure the second computer) nor the number of protocols (i.e., first, second and third protocols) utilized by the claimed invention.. Thus, at least for the above-discussed reasons, Bird et al. does not disclose, suggest or make obvious the limitations of independent claim 1.

⁶ *Id.* at Fig. 2; and paragraphs [0017] to [0020].

Further, regarding the dependent claim 2, Bird et al. nowhere disclose, as recited in the claim: “wherein the second protocol is developed to serve as a common platform for the analysis tasks of two or more systems with different protocols.” Further, regarding dependent claim 6, Bird et al. nowhere discloses, as recited in the claim: “wherein during interaction between the first computer and the user, rules are generated for automatic repetition, and the rules are further modified for a second computer with regard to the collected information and presentation of results of the analysis task.”

Furthermore, regarding claim 9, Bird et al. nowhere discloses, as recited in the claim: “wherein the first or second unit communicates with one or more units via a serial communication by means of the at least one microprocessor and works with a reduced interface toward at least one user, carries out processing of signals from an other unit according to rules attained from the other unit, and comprises a number of units having microprocessors which communicate with serial communication.”

Moreover, regarding the new claims, Bird et al. nowhere discloses, as recited in claims 11 and 12, respectively: “wherein the communication is by at least one of USB, Bluetooth and Ethernet” and “wherein the serial communication is by at least one of CAN and LIN and the reduced interface is at least one of light diodes and summers.” That is, Bird et al. nowhere discloses the types of protocols (e.g., USB, Bluetooth, CAN, LIN) that recited in the new claims of the invention. Therefore, in consideration of the above discussion, it is respectfully submitted that Bird et al. does not disclose, suggest or make obvious the claimed invention and that claim 1, and claims dependent thereon, patentably distinguish thereover.

CONCLUSION

In view of the above, consideration and allowance are respectfully solicited.

In the event the Examiner believes an interview might serve in any way to advance the prosecution of this application, the undersigned is available at the telephone number noted below.

The Office is authorized to charge any necessary fees to Deposit Account No. 22-0185.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 22-0185, under Order No. 21406-00015-US1 from which the undersigned is authorized to draw.

Dated: October 12, 2007

Respectfully submitted,

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